

From the INTERNATIONAL BUREAU

**PCT**

NOTIFICATION OF TRANSMITTAL  
OF COPIES OF TRANSLATION  
OF THE INTERNATIONAL PRELIMINARY REPORT  
ON PATENTABILITY  
(CHAPTER I OR CHAPTER II  
OF THE PATENT COOPERATION TREATY)  
(PCT Rule 72.2)

To:

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3-20,

**HIRAKI**

JUN. 29. 2005

RECEIVED  
with thanks

Date of mailing (day/month/year) 23 June 2005 (23.06.2005)	
Applicant's or agent's file reference PH-1894-PCT	<b>IMPORTANT NOTIFICATION</b>
International application No. PCT/JP2003/012301	International filing date (day/month/year) 26 September 2003 (26.09.2003)
Applicant SHARP KABUSHIKI KAISHA et al	

**1. Transmittal of the translation to the applicant.**

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

**2. Transmittal of the copy of the translation to the elected Offices.**

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

AZ, CA, CH, CN, CO, EP, GH, KG, KP, KR, MK, MZ, RO, RU, TM

The following elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, BA, BB, BG, BR, BY, BZ, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, ES, FI, GB, GD, GE, GM, HR, HU, ID, IL, IN, IS, KE, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MN, MW, MX, NI, NO, NZ, OA, OM, PG, PH, PL, PT, SC, SD, SE, SG, SK, SL, SY, TJ, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

**3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).**

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer  Yoshiko Kuwahara
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Translation

PATENT COOPERATION TREATY

PCT/JP2003/012301



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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY  
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PH-1894-PCT	FOR FURTHER ACTION	See Form PCT/IPEA/416
International application No. PCT/JP2003/012301	International filing date (day/month/year) 26 September 2003 (26.09.2003)	Priority date (day/month/year) 27 September 2002 (27.09.2002)
International Patent Classification (IPC) or national classification and IPC H04N 13/04, 13/00, G09G 5/36, 3/20, G03B 35/00		
Applicant SHARP KABUSHIKI KAISHA		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

3. This report is also accompanied by ANNEXES, comprising:

a. ☒ (sent to the applicant and to the International Bureau) a total of 1 sheets, as follows:

☒ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).

☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.

b. ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) \_\_\_\_\_, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

☒ Box No. I Basis of the report

☐ Box No. II Priority

☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

☒ Box No. IV Lack of unity of invention

☒ Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

☐ Box No. VI Certain documents cited

☐ Box No. VII Certain defects in the international application

☐ Box No. VIII Certain observations on the international application

Date of submission of the demand 24 March 2004 (24.03.2004)	Date of completion of this report 27 December 2004 (27.12.2004)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/012301

## Box No. 1 Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on translations from the original language into the following language \_\_\_\_\_, which is language of a translation furnished for the purpose of:
- ☐ international search (under Rules 12.3 and 23.1(b))
- ☐ publication of the international application (under Rule 12.4)
- ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

- ☐ The international application as originally filed/furnished
- ☒ the description: \_\_\_\_\_, as originally filed/furnished
- pages \_\_\_\_\_ 1-73 \_\_\_\_\_, as originally filed/furnished
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☒ the claims:
- pages \_\_\_\_\_ 1-39,42-60 \_\_\_\_\_, as originally filed/furnished
- pages\* \_\_\_\_\_ 40,41 \_\_\_\_\_, as amended (together with any statement) under Article 19
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☒ the drawings:
- pages \_\_\_\_\_ 1-35 \_\_\_\_\_, as originally filed/furnished
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

## Box No. IV Lack of unity of invention

1. ☐ In response to the invitation to restrict or pay additional fees the applicant has:
- ☐ restricted the claims.
  - ☐ paid additional fees.
  - ☐ paid additional fees under protest.
  - ☒ neither restricted nor paid additional fees.
2. ☐ This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.
3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is
- ☐ complied with.
  - ☒ not complied with for the following reasons:

The matter common to claim 1, claim 13, claim 14, claim 15, claim 16, claim 17, claim 18, claim 19, claim 20, claim 21, claims 22-26, claims 27-33, claims 34-37, claim 38, claim 39, claim 40, claim 41, claim 42, claim 43, claim 44, claim 45, claims 46 and 47, claims 48 and 49, claims 50 and 51, claim 52, claims 53 and 54, claim 55, claims 56 and 57, claim 58 and claims 59 and 60 is disclosed in JP, 7-46631, A (Sony Corp.), 14 February, 1995 (14.02.95), page 4, right column, line 22 to page 5, left column, line 10; Figs. 4-6. Furthermore, encoding and decoding a stereo image is considered to be not novel, since it is a commonly used means. Furthermore, there is no other common matter considered to be a special technical feature in the sense of the second sentence of PCT Rule 13.2. So, no technical relationship in the sense of PCT Rules can be found among those different inventions.

4. Consequently, this report has been established in respect of the following parts of the international application:

- ☐ all parts.
- ☒ the parts relating to claims Nos. 1-12

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP03/12301

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

Novelty (N)	Claims	1-12	YES
	Claims		NO
Inventive step (IS)	Claims	7, 9, 12	YES
	Claims	1-6, 8, 10, 11	NO
Industrial applicability (IA)	Claims	1-12	YES
	Claims		NO

## 2. Citations and explanations (Rule 70.7)

Document 1: JP, 7-46631, A (Sony Corp.), 14 February, 1995 (14.02.95)  
 Document 2: JP, 9-18894, A (Sanyo Electric Co., Ltd.), 17 January, 1997 (17.01.97)  
 Document 3: JP, 9-252478, A (Nippon Steel Corp.), 22 September, 1997 (22.09.97)  
 Document 4: JP, 11-355808, A (Olympus Optical Co., Ltd.), 24 December, 1999 (24.12.99)  
 Document 5: JP, 2002-232913, A (Canon Inc.), 16 August, 2002 (16.08.02)

The subject matter of claim 1 does not appear to involve an inventive step in view of documents 1 and 4 cited in the ISR. Document 1 (page 4, right column, line 22 to page 5, left column, line 10, Figs. 4-6) describes a constitution in which the control information necessary for displaying a stereo image is entered, and document 4 (page 3, right column, line 41 to page 4, left column, line 40, Fig. 1) describes a constitution in which "function  $f(p)$  expressing the degree of influence" is calculated. Furthermore, the said "function  $f(p)$  expressing the degree of influence" is a value relating to convergence (parallax), and the fatigue degree of eyes is judged based on  $f(p)$  for switching between a three-dimensional image (stereo display) and a two-dimensional image (planar image). So, the function  $f(p)$  corresponds to the "stereo intensity" described in claim 1.

The subject matters of claims 2, 4-6, 10 and 11 do not appear to involve an inventive step in view of documents 1 and 4 and document 2 cited in the ISR. Document 2 (page 2, right column, lines 3-5) describes a technique in which if the watching time exceeds a certain period of time, the display screen is changed from a stereo image to an ordinary planar image, and document 4 (page 4, left column, lines 13-40; page 6 left column, lines 34-38; page 6, right column, lines 12-17) describes (1) a technique in which in the case where the cumulative convergence tolerance limit value is exceeded, switching is made to display a two-dimensional image, (2) a technique in which switching to a two-dimensional image is made temporarily, and (3) a technique in which the stereo degree of a three-dimensional image is reduced instead of switching from a three-dimensional image to a two-dimensional image. Moreover, controlling a threshold value and a predetermined time as described in claims 10 and 11 is a mere matter of design variation for a person skilled in the art.

The subject matter of claim 3 does not appear to involve an inventive step in view of documents 1, 2 and 4 and document 3 cited in the ISR. Document 3 (page 3, right column, lines 13-18) describes a constitution in which if a time is exceeded, an alarm is issued.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

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**Supplemental Box**

In case the space in any of the preceding boxes is not sufficient.

Continuation of: V

The subject matter of claim 8 does not appear to involve an inventive step in view of documents 1-4 and document 5 (page 3, left column, lines 42-46, Fig. 9) cited in the ISR. Document 5 describes a technique in which various parallax values including the case of parallax value 0 are adjusted.

The subject matters of claims 7, 9 and 12 are neither described in any of the documents cited in the ISR nor obvious to a person skilled in the art.